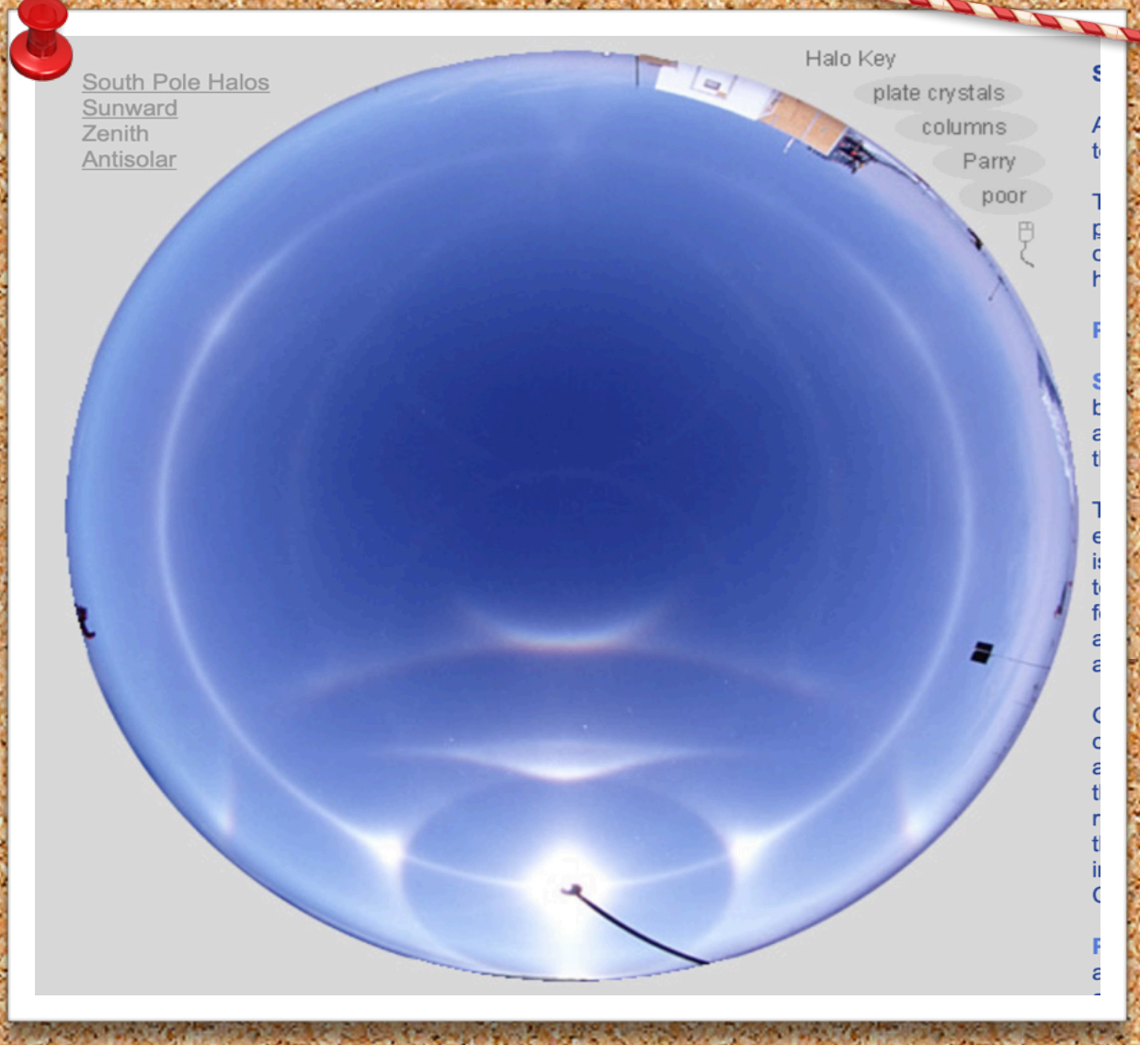
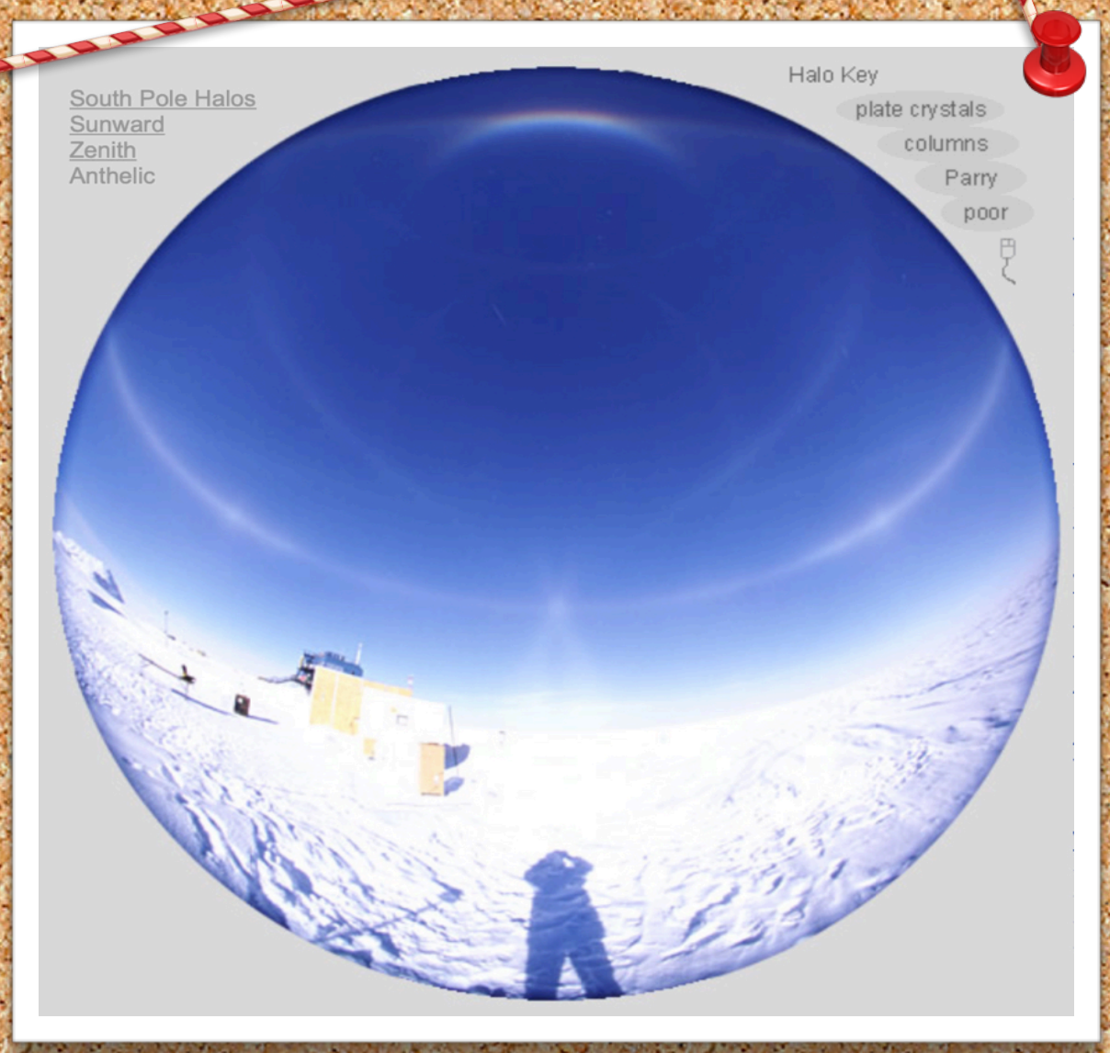
'WATER MOLECULES' & 'ICE CRYSTALS' VS GEOMETRIC OPTICS, EVIDENCE & LOGIC

solar/atmospheric 'phenomena' exhibits an elaborate, yet precise & distinguishable optical geometry...



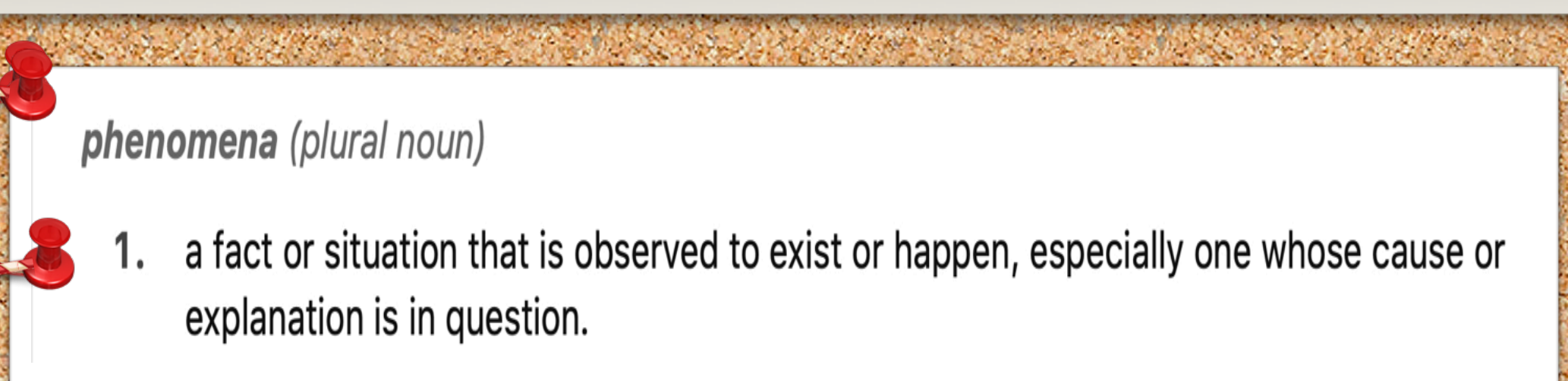


Modern academia supports the notion that 'multitudes of water molecules' and/or 'ice crystals' generate these elaborate optical display...

So why is the term "phenomena" still applied in relation?

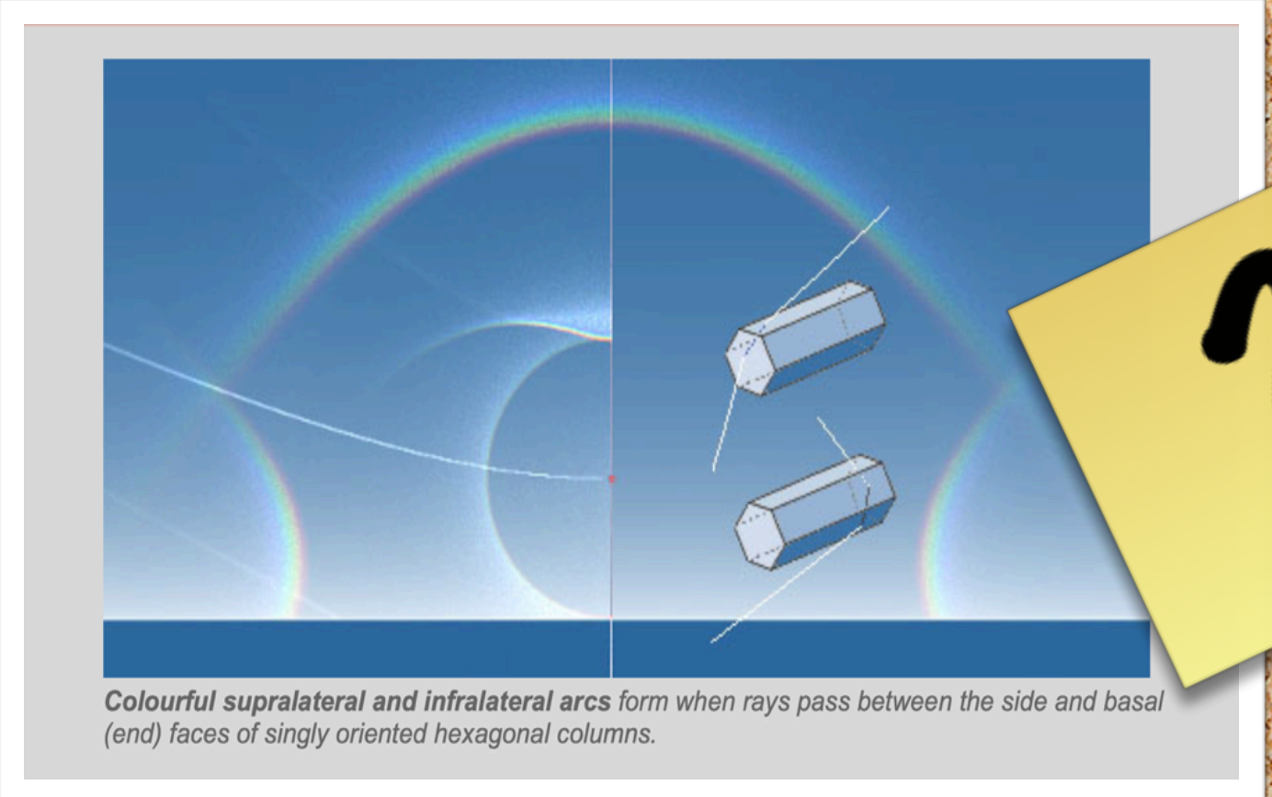
contradiction

The title implies that the 'cause is either unknown' or 'its explanation is in question'

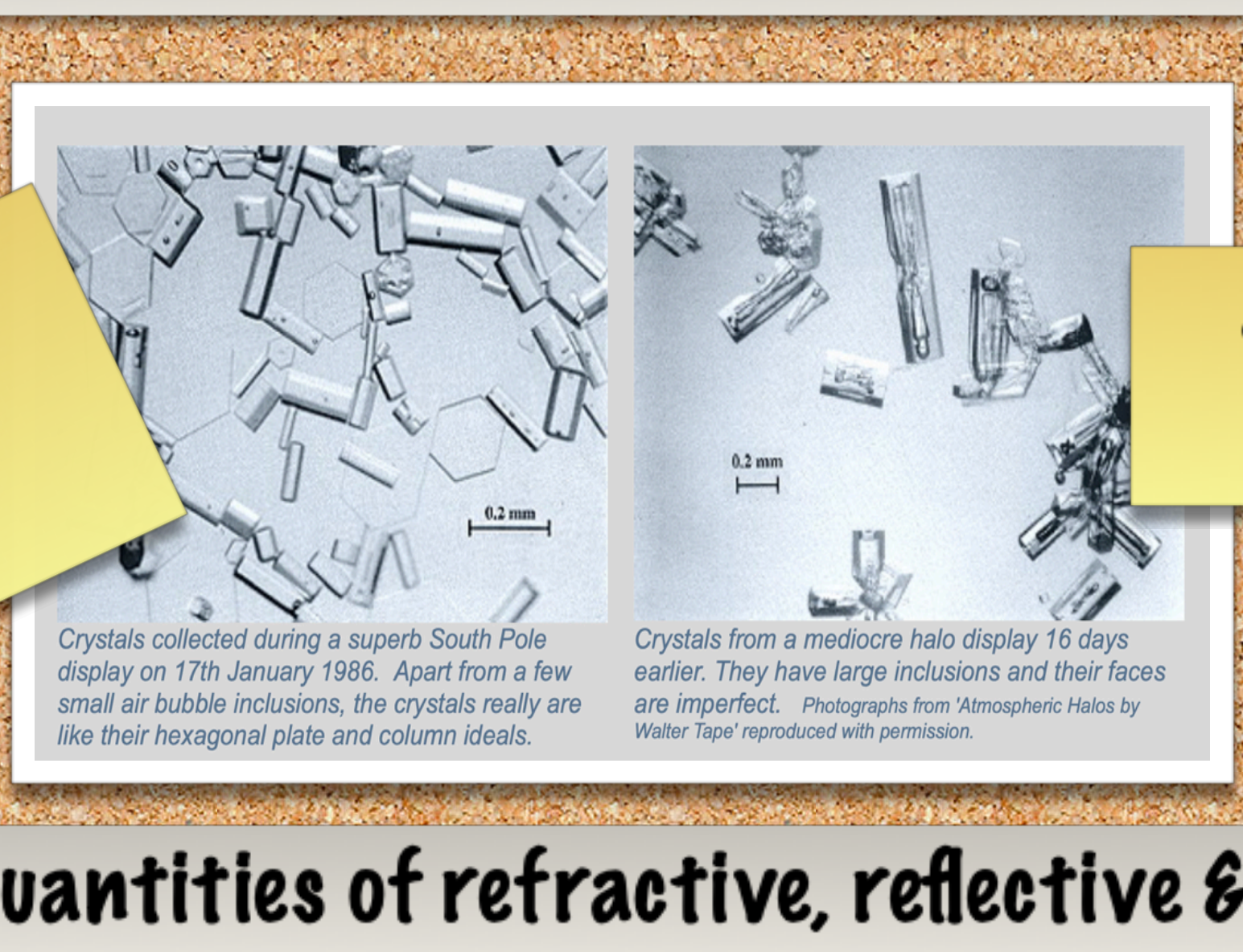


phenomena (plural noun)

1. a fact or situation that is observed to exist or happen, especially one whose cause or explanation is in question.

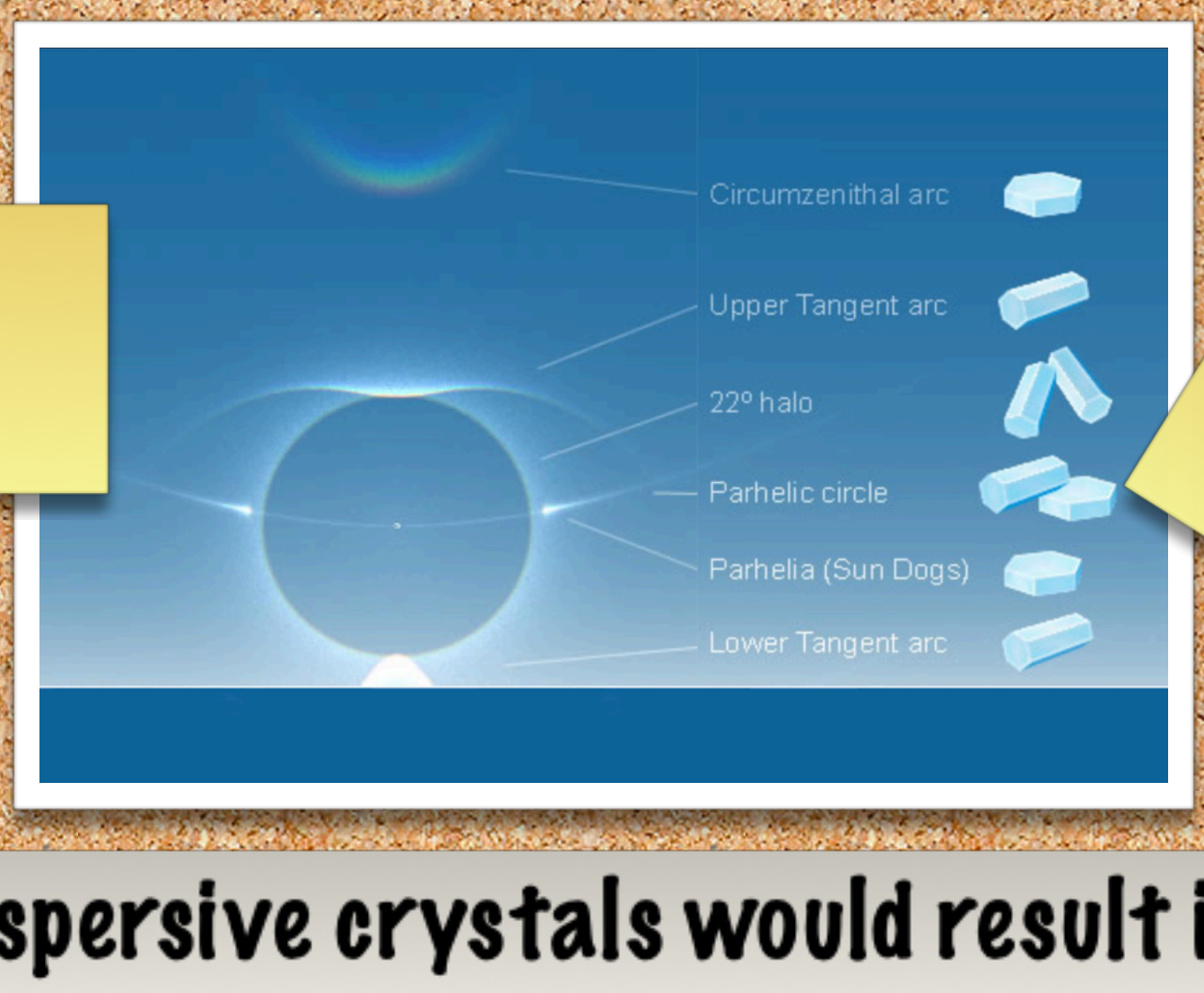


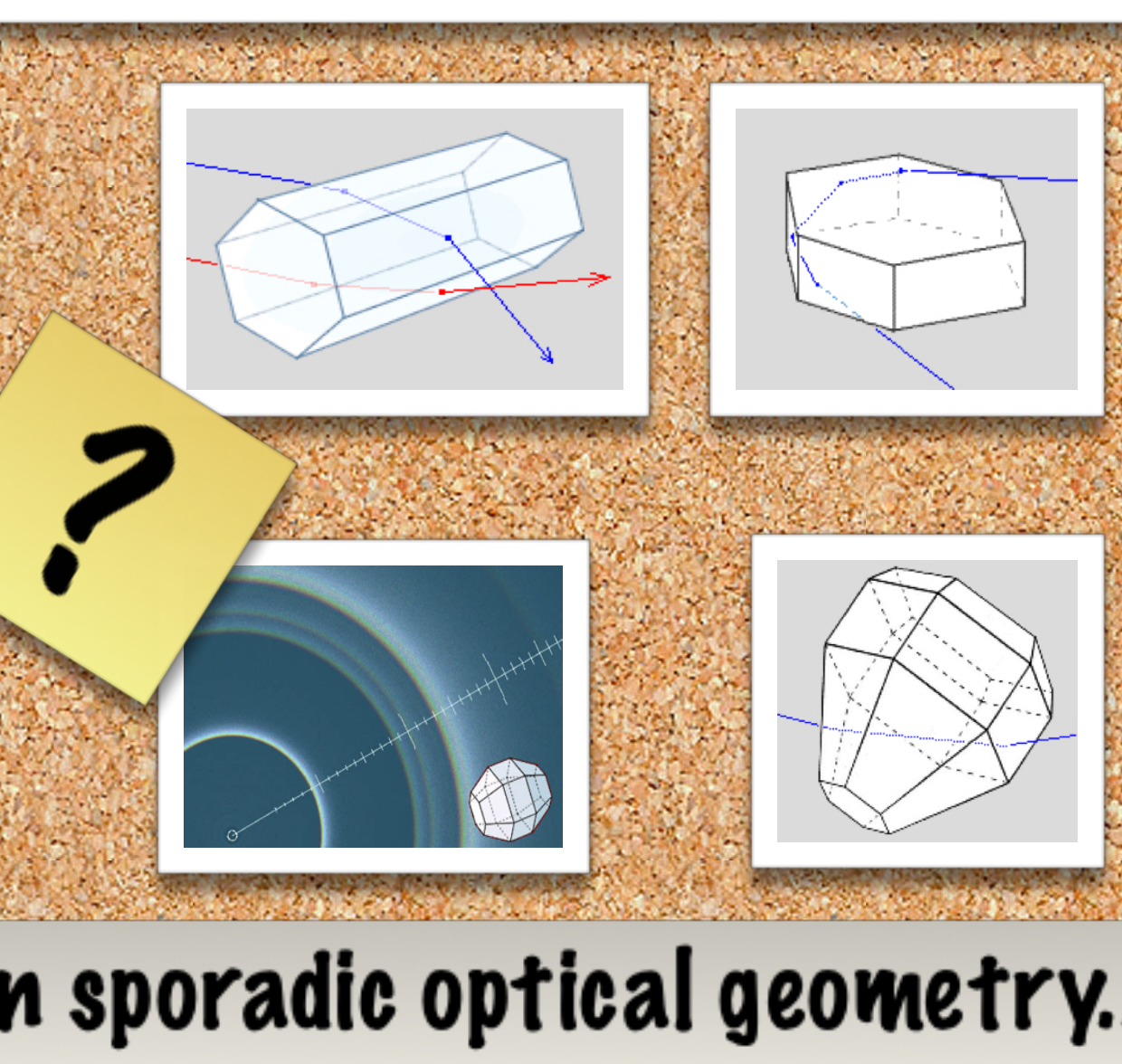
Colourful supralateral and infralateral arcs form when rays pass between the side and basal (end) faces of singly oriented hexagonal columns.



Crystals collected during a superb South Pole display on 17th January 1986. Apart from a few small air bubble inclusions, the crystals really are like their hexagonal plate and column ideals.

Crystals from a mediocre halo display 16 days earlier. They have large inclusions and their faces are imperfect. Photographs from 'Atmospheric Halos by Walter Tape' reproduced with permission.





Sporadic shapes, sizes, distances & quantities of refractive, reflective & dispersive crystals would result in sporadic optical geometry...

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a fist full of glitter does not reflect the same optical geometry as a single speck of glitter...

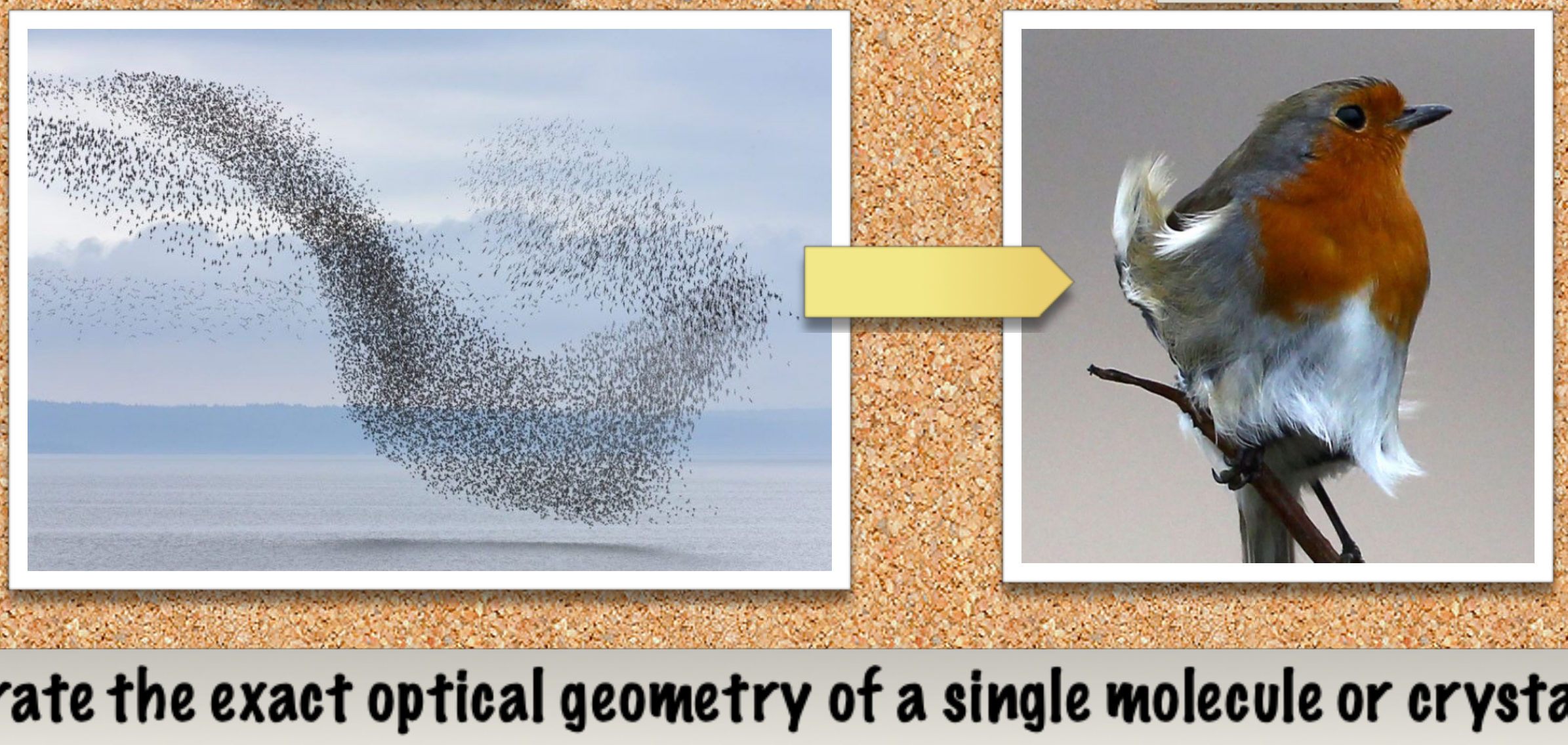
nor does it have the ability to generate consistant, reoccurring geometric patterens

These glittering fragments...
have nothing to do with the optical geometry of this arc...
neither collectively or individually

a swarm of birds does not have the appearance of a single bird...

a swarm of birds

a single bird



So how exactly do we rationalize the notion that an 'atmosphere full of water and ice would generate the exact optical geometry of a single molecule or crystal'?

The atmosphere's water molecules and ice cystals are merely the medium in which the optical geometry is being projected, NOT CREATED...

Only something astronomical & singularly colossal could generate the reflected optical geometry observed in our atmo-sphere

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Water caustics experiment conducted on April 26, 2019 using a wine-glass full of water

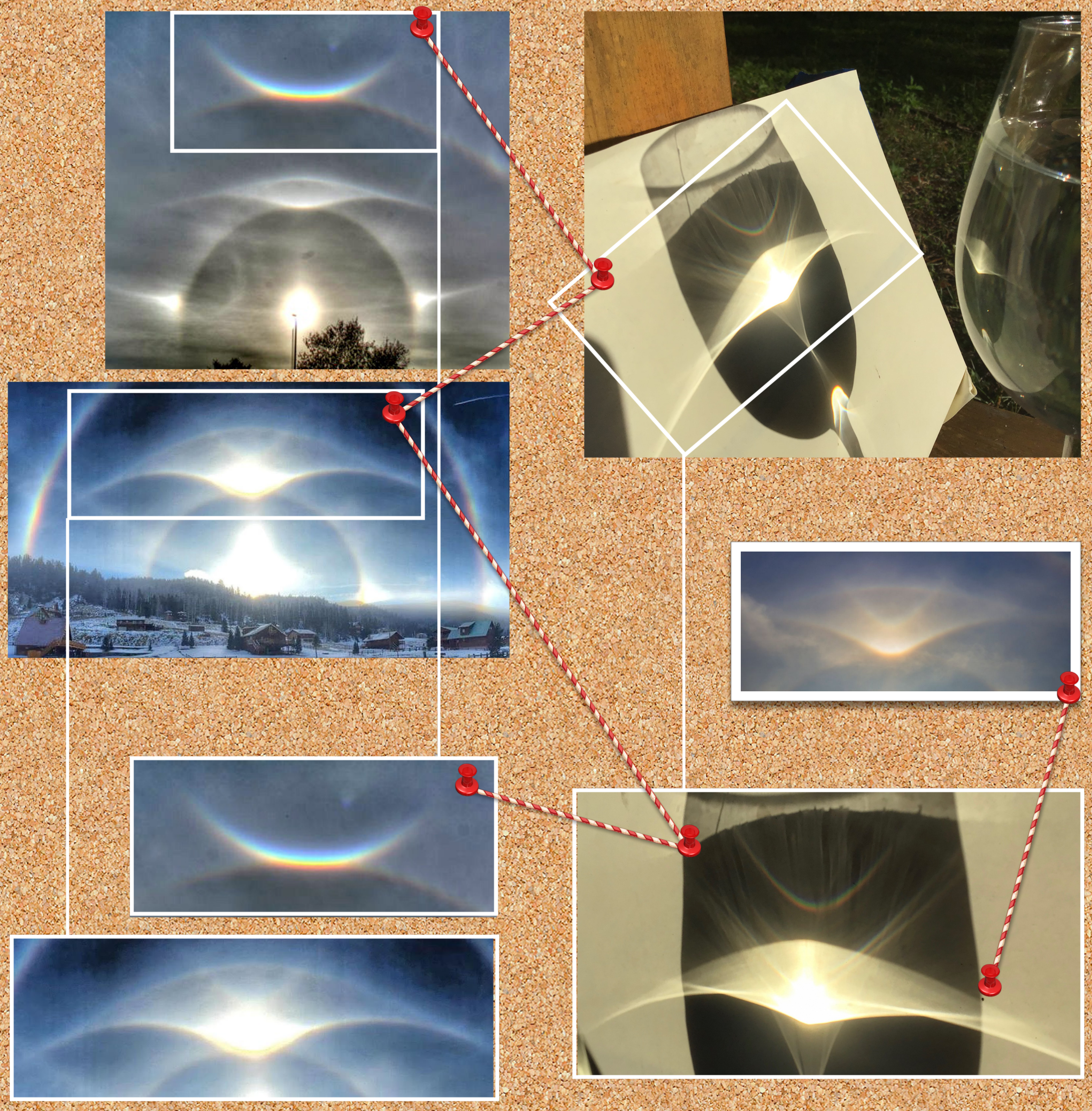
The resulted caustics/reflections exhibited the same optical geometry as 4 seperate solar/atmospheric arcs

'Sunvex Parry Arc', 'Suncave Parry Arcs', 'Upper Tangent Arc', and 'Circumzenthal Arc' with corresponding prism

Solar/Atmospheric 'Phenomena'

Spherical water caustics/reflections

solar light source at obtuse angle



-these experiments are repeatable-

-these experiments have been repeated-

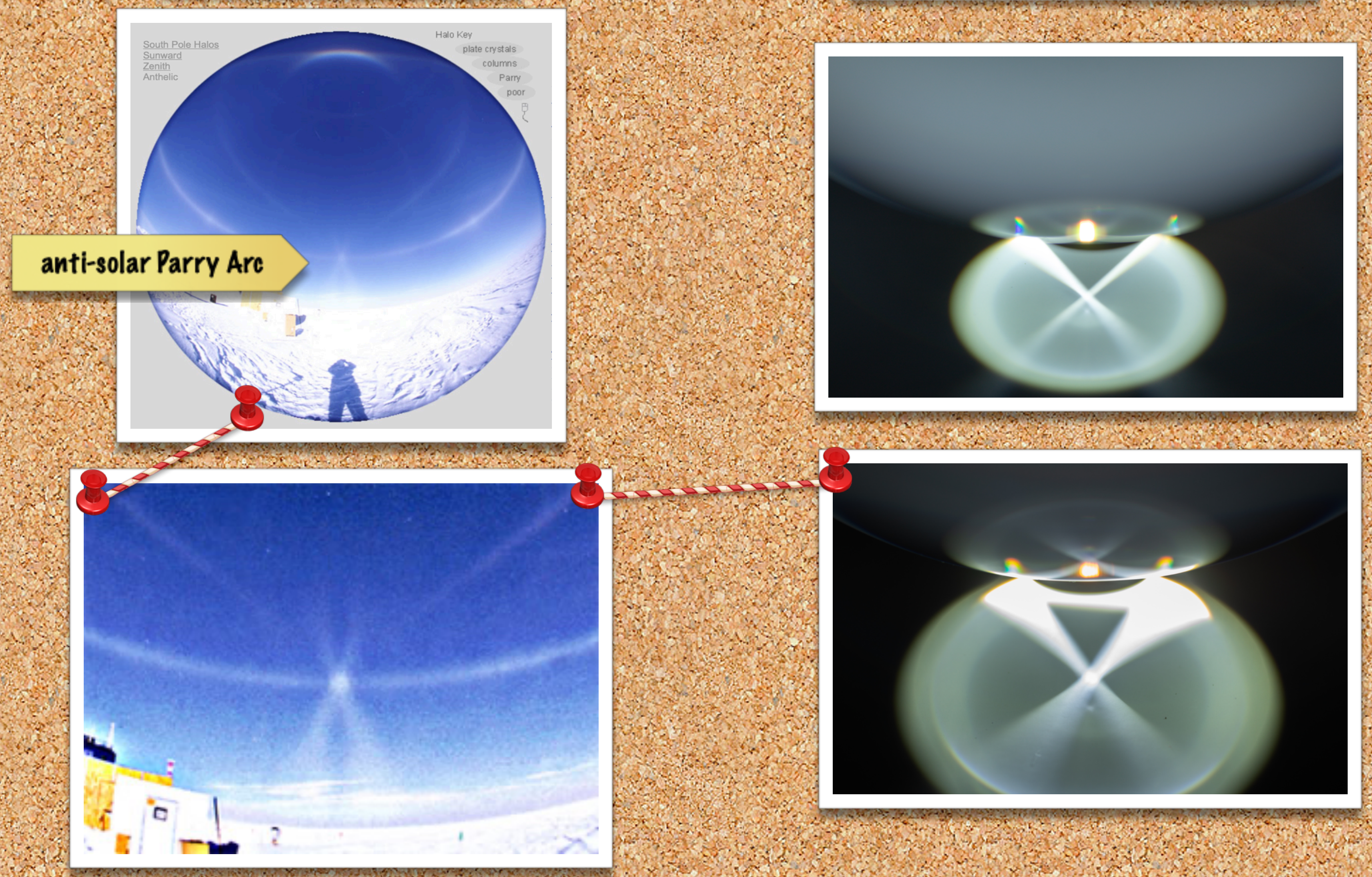
Crystalline caustics experiment conducted on Jan 2, 2020 using a crystal/glass sphere

Anti-Solar/AtmoSPHERIC 'Phenomona'

'Anti-Solar Parry Arc'

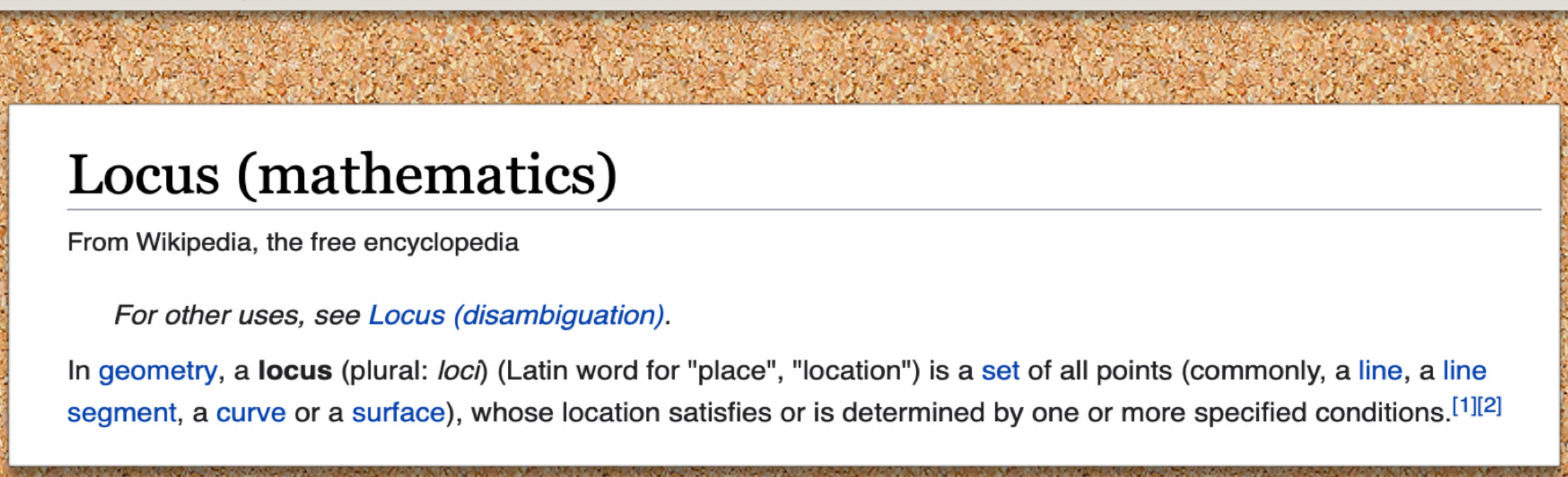
Spherical crystalline caustics/reflections

light source at acute angle



According to modern mathematics:

'a geometric shape can be 'PROVEN' by the locus of a given set of conditions'

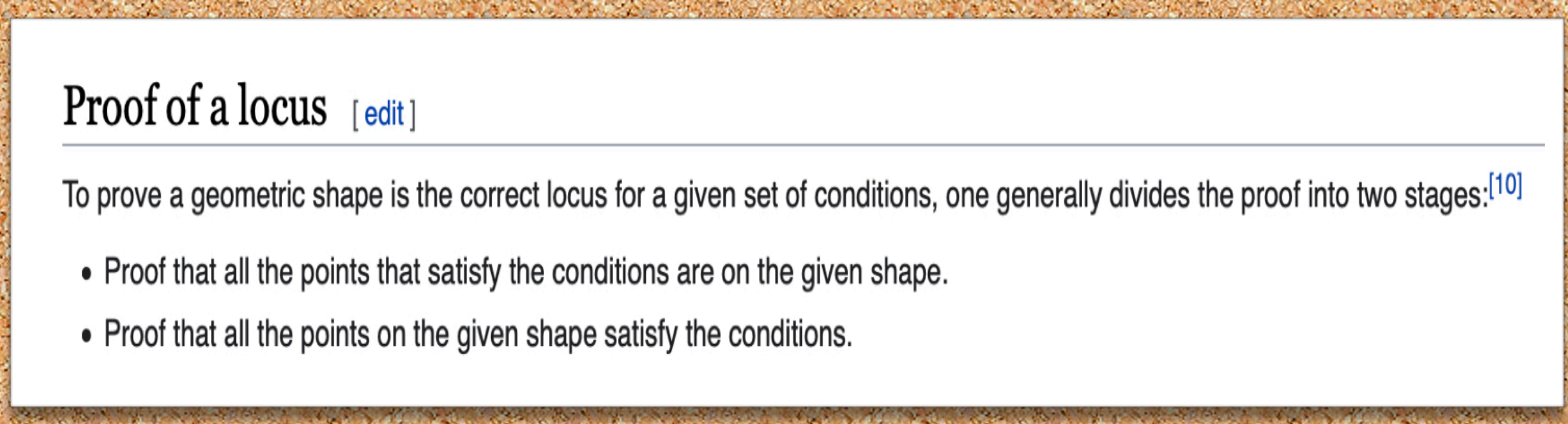


Locus (mathematics)

From Wikipedia, the free encyclopedia

For other uses, see Locus (disambiguation).

In geometry, a **locus** (plural: *loci*) (Latin word for "place", "location") is a set of all points (commonly, a line, a line segment, a curve or a surface), whose location satisfies or is determined by one or more specified conditions.[1][2]



Proof of a locus [edit]

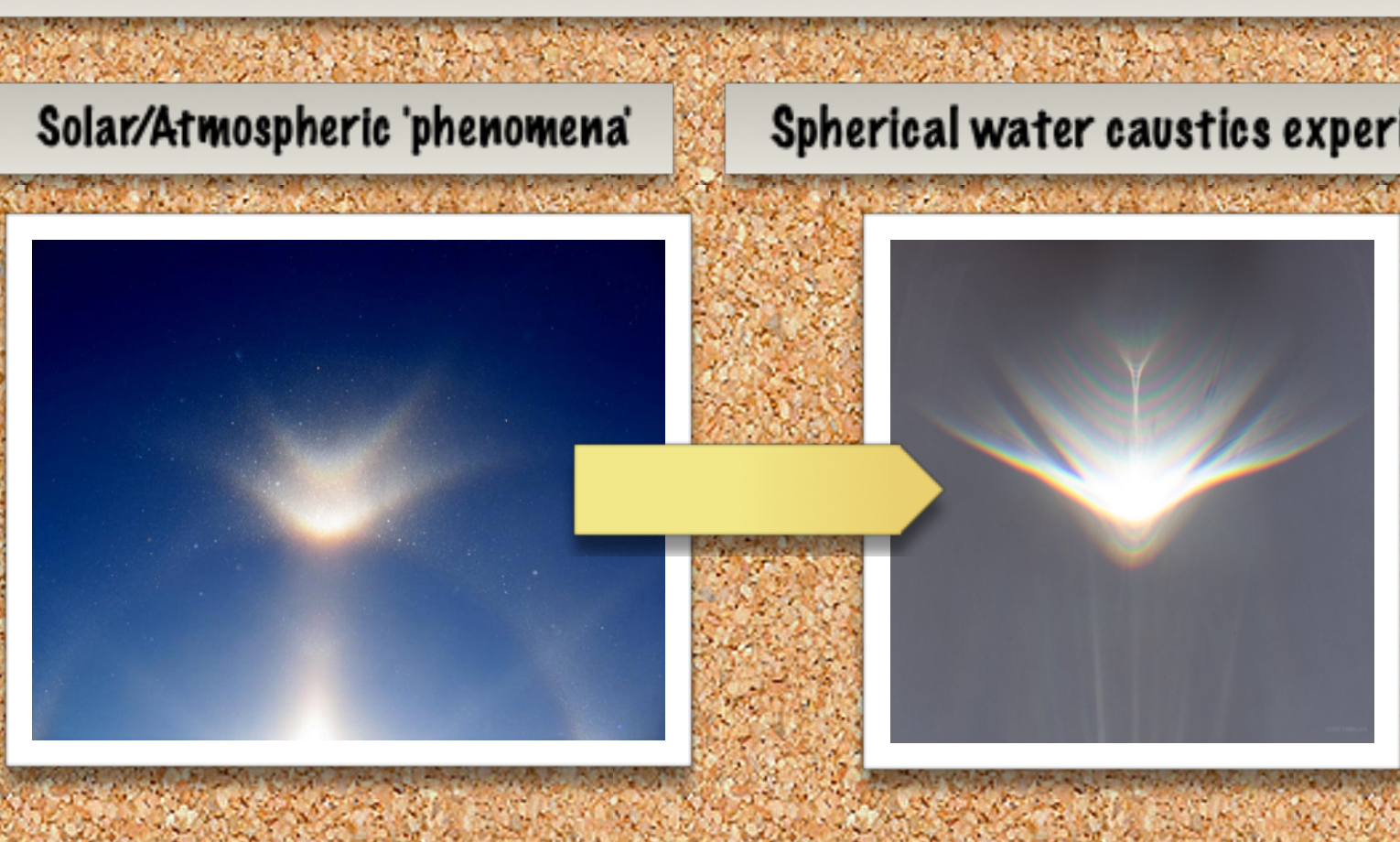
To prove a geometric shape is the correct locus for a given set of conditions, one generally divides the proof into two stages:[10]

- Proof that all the points that satisfy the conditions are on the given shape.
- Proof that all the points on the given shape satisfy the conditions.

The optical geometry of arcs & other so-called 'phenomona' observed in our atmosphere only concurs to a single set of conditons, neither which are Elliptical or Euclidean

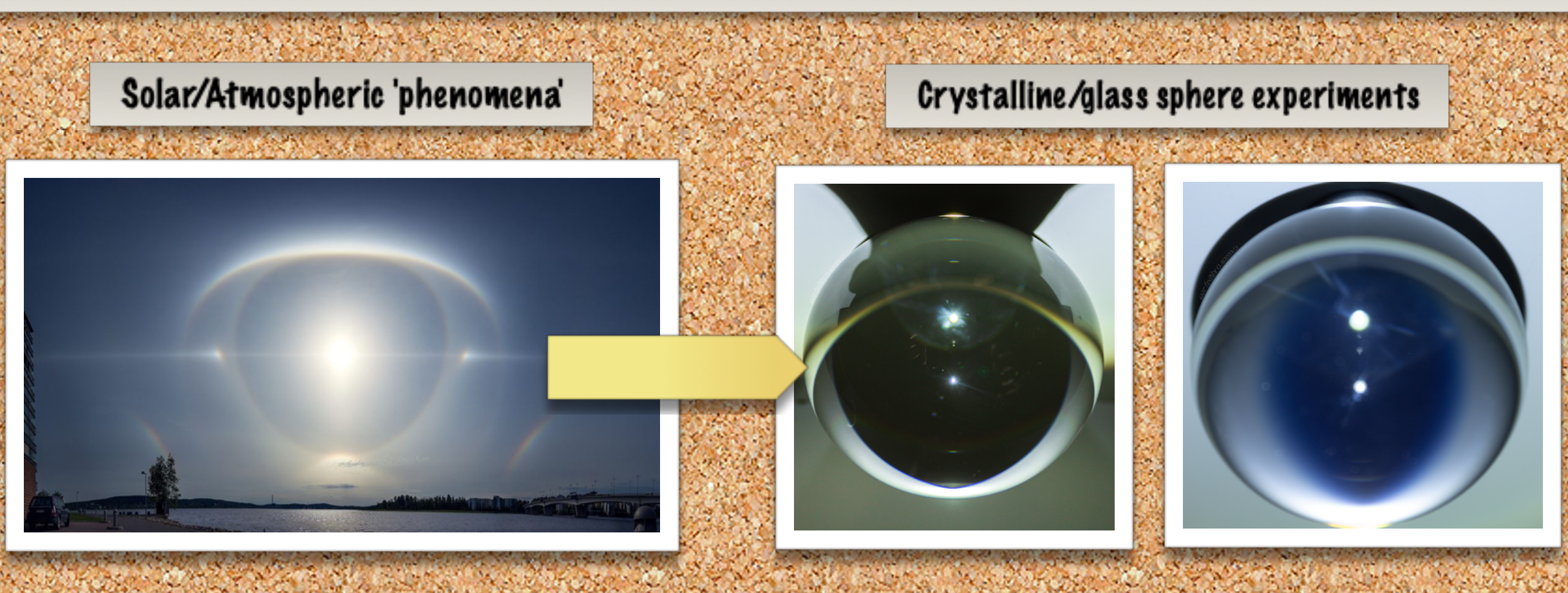
Solar/Atmospheric 'phenomena'

Spherical water caustics experiment



Solar/Atmospheric 'phenomena'

Crystalline/glass sphere experiments



Experiments & Analytics by Cassidy O Kring 2020